









FIG. 3

Step 01 Step 02 Step 03 Step 04 Step 05 Step 07 Step 07 <t< th=""><th></th><th></th><th></th><th>+ N: L</th><th>AlCu</th><th>Copper</th><th>+</th><th></th><th></th></t<>				+ N: L	AlCu	Copper	+		
Type 01 Step 02 Step 03 Step 04 Step 06 Step 07 Step 07 <t< th=""><th>Main etch chambe</th><th></th><th>•</th><th>AICu Bulk</th><th>Endpoint</th><th>1</th><th>1:1 Overetch</th><th></th><th></th></t<>	Main etch chambe		•	AICu Bulk	Endpoint	1	1:1 Overetch		
10.00		Step 01	Step 02	Step 03	Step 04	Step 05	Step 06	Step 07	Step 08
(W) 0 0 360 360 360 360 360 360 360 360 360 360 360 0 (W) N/A N/A N/A N/A N/A N/A (W) 40.0 40.0 40.0 40.0 50.0 50.0 0.0 (W) 40.0 40.0 40.0 40.0 40.0 50.0 50.0 0.0 (W) 40.0 40.0 40.0 40.0 50.0 50.0 0.	Pressure (mT)	0.00	10.00	10.00	10.00	10.00	10.00	0.00	00.0
(W) 0 0 100 225 225 100 0 N/A N/A N/A N/A N/A N/A N/A N/A 0 M/A N/A N/A N/A N/A N/A N/A 1 40.0 40.0 40.0 50.0 50.0 0.0 0 40.0 40.0 40.0 50.0 50.0 0.0 0 40.0 40.0 40.0 30.0 30.0 0.0 0.0 0 0.0 0.0 0.0 0.0 20.0 0.0 0.0 Stabil Time EndPt Time Time Time Time 30s 30s 24s 50s 5s 50s 10s 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 <	RF-Top (W)	0	o	360	360	360	360	0	0
N/A N/A N/A N/A N/A N/A N/A 40.0 40.0 40.0 50.0 50.0 0.0 0.0 40.0 40.0 40.0 30.0 30.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 10.0 10.0 10.0 10.0 0.0 0.0 Stabl Stabl Time Time Time Time Time 30s 30s 24s 50s 5s 50s 10s 1 14 14 14 14 10s 10s 1 1 0 0 0 0 0 0 0 0	RF-Bottom (W)	0	o	100	225	225	1001	o	
40.0 40.0 40.0 40.0 40.0 50.0 50.0 50.0 0.0 40.0 40.0 40.0 40.0 30.0 30.0 0.0 0.0 0.0 0.0 0.0 20.0 0.0 0.0 10.0 10.0 10.0 10.0 0.0 3tabi Stabi Time Time Time Time 30s 30s 24s 50s 5s 50s 10s 10s 14 15 16 1	Gap (cm)	N/A	V/V	A/A	A/N	A/A	N/A	A/N	₹/Z
40.0 40.0 40.0 40.0 40.0 30.0 30.0 30.0 0.0 10 0.	BCI3 (sccm)	40.0	40.0	40.0	40.0	50.0	50.0	0.0	00
1) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Cl2 (sccm)	40.0	40.0	40.0	40.0	30.0	30.0	0.0	0
0.0 10.0 10.0 10.0 10.0 0.0 Stabl Stabl Time EndPt Time Time Time 30s 30s 24s 50s 5s 50s 10s 10s 30s 24s 50s 10s 10s 10s 10s 30s 30s 10s 10	SF6 (sccm)	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0
Stabil Stabil Time Time Time 30s 30s 24s 50s 50s 10s 6 262 nm 14	He clamp (T)	0.0	10.0	10.0	10.0	10.01	10.01	0.0	0.0
30s 30s 24s 50s 5s 50s 10s 262 nm 262 nm 14 1 1 2 2 2 2 2 0 0 0 0 0	Completion	Stabil	Stabi	Time	EndPt	Time	Time	Time	puil
262 7	Time	30s	308	248	\$0 9	58	508	10s	S
	Channel				262 nm				
	Delay (sec)				14				
	Norm (sec)				2				
	Norm value				0				
	Trigger (%)				06				

FIG. 4

50.0°C 60.0°C

Electrode Temp Chamber Temp